

WHAT IS CLAIMED IS:

1. A rotor driving apparatus comprising:

a casing;

a rotor rotatably disposed within the casing;

5 a driving unit supported to the casing for rotationally driving the rotor;

a supporting portion that elastically supports the driving unit to the casing, the supporting portion having a vibration isolation rubber;

10 a temperature sensor that detects a temperature of the supporting portion or an ambient area thereof and outputs temperature data;

a temperature adjusting device that performs one of cooling and heating of the supporting portion; and

15 a controller that controls a temperature generated by the temperature adjusting device based on the temperature data from the temperature sensor.

20 2. The rotor driving apparatus as claimed in claim 1, wherein the temperature adjusting device comprises a Peltier element.

3. The rotor driving apparatus as claimed in claim 1, wherein the temperature adjusting device comprises a cooling device.

25 4. The rotor driving apparatus as claimed in claim 1, further comprising cooling means for cooling the

driving unit, and wherein the temperature adjusting device comprises a heating device.

5 5. The rotor driving apparatus as claimed in claim 1, wherein the temperature adjusting device comprises a thermistor.

6. A rotor driving apparatus comprising:

a casing;

a rotor rotatably disposed within the casing;

10 a driving unit supported to the casing for rotationally driving the rotor;

a supporting portion that elastically supports the driving unit to the casing, the supporting portion having a vibration isolation rubber;

15 a thermistor that heats the supporting portion or an ambient area thereof to a predetermined temperature; and,

a constant-voltage circuit for applying a constant voltage to the thermistor.

7. A centrifuge comprising:

20 a casing;

a rotor rotatably disposed within the casing, test tubes each containing a testing sample therein being held in the rotor for centrifugal separation;

25 a driving unit supported to the casing for rotationally driving the rotor;

a supporting portion that elastically supports the driving unit to the casing, the supporting portion having a vibration isolation rubber;

5 a temperature sensor that detects a temperature of the supporting portion or an ambient area thereof and outputs temperature data;

a temperature adjusting device that performs one of cooling and heating of the supporting portion; and

10 a controller that controls a temperature generated by the temperature adjusting device based on the temperature data from the temperature sensor.

8. The centrifuge as claimed in claim 7, wherein the temperature adjusting device comprises a Peltier element.

15 9. The centrifuge as claimed in claim 7, wherein the temperature adjusting device comprises a cooling device.

20 10. The centrifuge as claimed in claim 7, further comprising cooling means for cooling the driving unit, and wherein the temperature adjusting device comprises a heating device.

11. The centrifuge as claimed in claim 7, wherein the temperature adjusting device comprises a thermistor.

25 12. A centrifuge comprising:
a casing;

a rotor rotatably disposed within the casing, test tubes each containing a testing sample therein being held in the rotor for centrifugal separation;

5 a driving unit supported to the casing for rotationally driving the rotor;

a supporting portion that elastically supports the driving unit to the casing, the supporting portion having a vibration isolation rubber;

10 a thermistor that heats the supporting portion or an ambient area thereof to a predetermined temperature; and,

a constant-voltage circuit for applying a constant voltage to the thermistor.

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